



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY  
WASHINGTON, D.C. 20460

OFFICIAL USE  
ONLY

MEMORANDUM

SUBJECT: EPA Reg. No./File Symbol Altosid® Liquid Larvacide  
Concentrate / 2724-393

FROM: Ian Blackwell, *CDJ* 2/25/92  
Precautionary Review Section  
Registration Support Branch  
Registration Division (H7505C)

*E* 2/25/92

TO: Phillip Hutton  
Insecticide-Rodenticide Branch  
Registration Division (H7505C)

PM 18

APPLICANT: Zoecon Corporation  
12200 Denton Drive  
Dallas, Texas 75234

FORMULATION FROM LABEL:

<u>Active Ingredient(s):</u>	<u>% by wt.</u>
<u>Methoprene [isopropyl (2E,4E,7S)</u>	<u>20.0</u>
<u>-11-methoxy-3,7,11-trimethyl</u>	<u></u>
<u>2,4 dodecadienoate]</u>	<u></u>
<u>Inert Ingredients:.....</u>	<u>80.0</u>
Total	100.0%

BACKGROUND: The registrant, Zoecon Corporation, has submitted acute oral toxicity, acute dermal toxicity, primary eye irritation and primary dermal irritation studies in support of the product Altosid Liquid Larvicide Concentrate. The studies were conducted by SRI International. The MRID numbers are 421084 -02 through -05.

RECOMMENDATIONS: RSB/PRS findings are:

1. All four studies are graded supplementary due to the name of the test material not being the same as the product for registration. The registrant must identify the product tested (R437N SAN 810 I 20CS) and it's relation to the product for registration. If the test material is not the product for registration, CSFs for both the test material and registration product must be submitted.
2. The primary dermal irritation study is also graded supplementary because the dimensions of the test area were 26 cm<sup>2</sup>, not 6 cm<sup>2</sup> as per guidelines.
3. Acute inhalation and dermal sensitization studies must be submitted.

LABELING:

1. Labeling will be assigned upon submission of the outstanding information.

DATA REVIEW FOR ACUTE ORAL TOXICITY TESTING (§81-1)

Product Manager: 18 Report No.: LSC 2673-M032-91  
Reviewer: Ian Blackwell Report Date: 10/25/91  
MRID No.: 421084-02

Testing Facility: SRI International  
Author(s): J.E. Schindler and R.C. Baldwin

Quality Assurance (40 CFR §160.12): Included

Species: Sprague-Dawley rats  
Sex: 5 males + 5 females  
Age: 7-10 weeks old  
Weight: 187 to 206 grams  
Source: Simonsen Laboratories

Test Material: Zoecon Sample #R437N SAN 810 I 20CS  
Observation Days (Post Exposure): (14); other ( )

Conclusion:

1. LD50 (mg/kg): Males (M) = \_\_\_\_\_  
Females (F) = \_\_\_\_\_  
Combined(C) = \_\_\_\_\_
2. Toxicity Category: IV  
Classification: core-supplementary

Procedure (Deviations From §81-1):

The test material was not identified as the product for registration.

Results:

Reported Mortality

Dosage ( mg/kg)	Mortality Ratio (number killed/number tested)		
	Males (M)	Females (F)	Combined (C)
5100	0/5	0/5	0/10

Observations: No signs of toxicity were exhibited.  
No abnormalities were observed at gross necropsy.

DATA REVIEW FOR  
ACUTE DERMAL TOXICITY TESTING (§81-2)

Product Manager (PM): 18  
Reviewer: Ian Blackwell Report No.: LSC 2673-M033-91  
MRID No.: 421084-03 Report Date: 10/25/91

Testing Laboratory: SRI International  
Author(s): J.E. Schindler and R.C Baldwin

Quality Assurance (40 CFR §160.12): Included

Species: New Zealand White rabbits  
Age: 14 to 15 weeks  
Sex: 5 males + 5 females Wt.: 2.76 to 3.17 kg  
Source: Western Oregon Rabbit Company

Test Material: Zoecon Sample #R437N SAN 810 I 20CS  
Dosage: 2.1 mg/kg

Summary:

LD50: \_\_\_\_\_  
Toxicity Category: \_\_\_\_\_  
Classification: core - supplementary

Procedure (Deviations From §81-2):

Test material not identified as the product for registration.

Results:

1. Reported Mortality

Dosage ( g/kg)	Mortality Ratio (number killed/number tested)		
	Males (M)	Females (F)	Combined (C)
2.1 g/kg	0/5	0/5	0/10

2. Observations: No signs of toxicity were displayed.  
All test animals displayed slight to moderate erythema and/or edema.

No abnormalities were observed upon gross necropsy.

DATA REVIEW FOR  
PRIMARY EYE IRRITATION TESTING (§81-4)

Product Manager (PM): 18  
Reviewer: Ian Blackwell  
MRID No: 421084-05

Report No.: LSC 2673-M035-91  
Report Date: 10/25/91

Testing Laboratory: SRI International  
Author(s): J.E. Schindler and R.C. Baldwin

Quality Assurance (40 CFR §160.12): Included

Species: New Zealand White rabbits  
Source: Western Oregon Rabbit Company  
Age: 14 to 15 weeks Wt.: 2.8 to 3.2 kg

Test Material: Zoecon Sample No. R437 SAN 810 I 20CS  
Dosage: 0.1 ml

Summary:

Toxicity Category:  
Classification: core - supplementary

Procedure (Deviation From §81-4):  
Test material not identified as the product for registration.

Results:

	Observations (number "positive"/number tested).							
	Hour 1	Days						
	1	1	2	3	4	7	14	21
Cornea	0/6	0/6	0/6	0/6	---	---	---	---
Iris	0/6	0/6	0/6	0/6	---	---	---	---
Conjunctivae								
Redness	6/6	0/6	0/6	0/6	---	---	---	---
Chemosis	0/6	0/6	0/6	0/6	---	---	---	---
Discharge	1/6	0/6	0/6	0/6	---	---	---	---

Observations: Three additional test animals had their eyes washed with tap water for 30 seconds approximately thirty seconds after instillation of the test material. No conjunctival or iridal irritation was observed in these animals. All animals displayed positive scores for conjunctival redness 1 hour after instillation of the test material. No other irritation was displayed (other than 5 negative scores of "1").

DATA REVIEW FOR  
DERMAL IRRITATION TESTING (§81-5)

Product Manager (PM): 18  
Reviewer: Ian Blackwell  
MRID No.: 421084-04

Report No.: LSC 2673-M034-91  
Report Date: 10/25/91

Testing Laboratory: SRI International  
Author(s): J.E. Schindler and R.C. Baldwin

Quality Assurance (40 CFR §160.12): Included

Species: New Zealand White rabbits  
Age: 14 to 15 weeks  
Weight: 2.67 to 3.14 kg  
Source: Western Oregon Rabbit Company

Test Material: Zoecon sample #R437N SAN 810 I 20CS  
Dosage: 0.5 ml

Summary: Toxicity Category:                     

Classification: core - supplementary

Procedure (Deviations From §81-5):

The test material was not identified as the product for registration.

Test material was applied to a 26 cm<sup>2</sup> area, not a 6 cm<sup>2</sup> area as per guidelines (1 in<sup>2</sup> vs. 2 in<sup>2</sup>).

Results: No erythema, edema or other irritation was observed during the study.